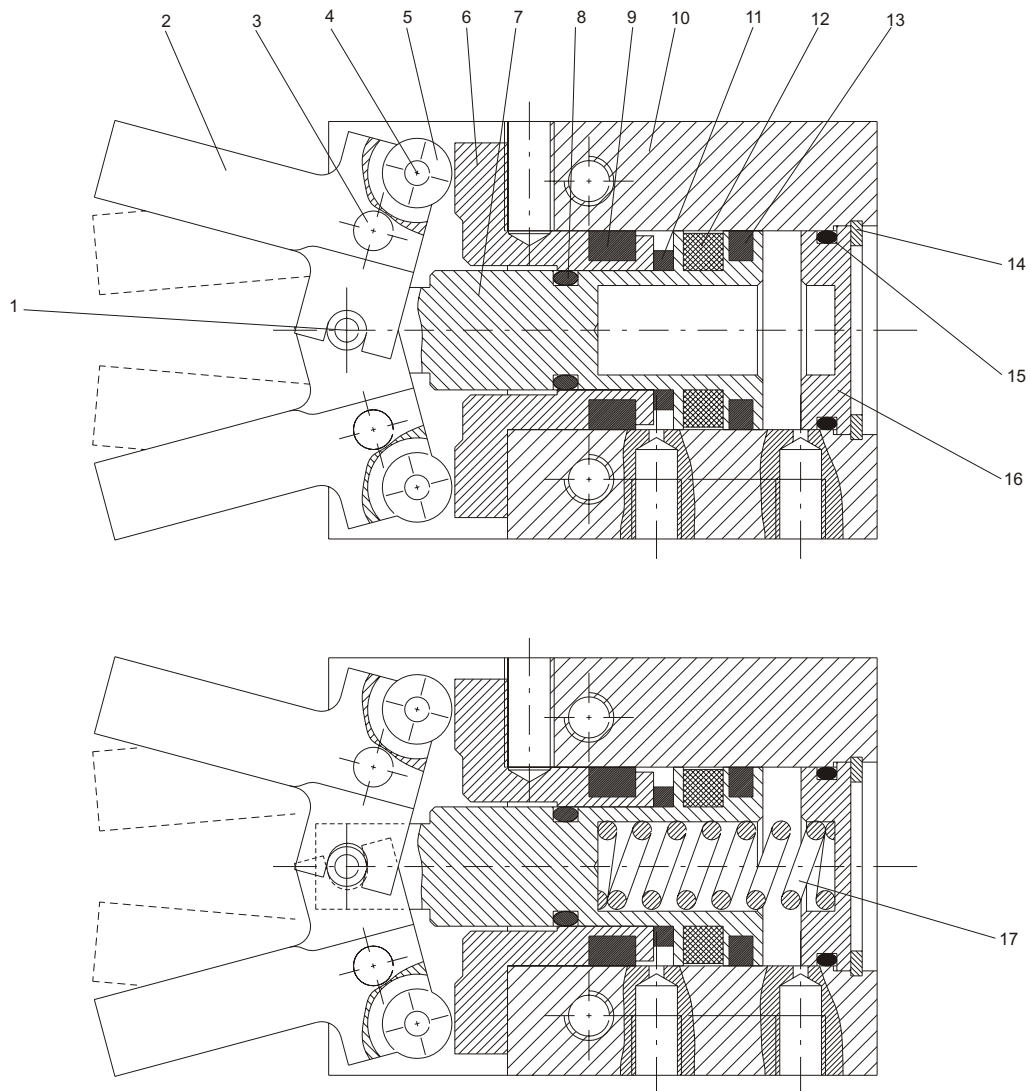




PNEUMATIC GRIPPERS

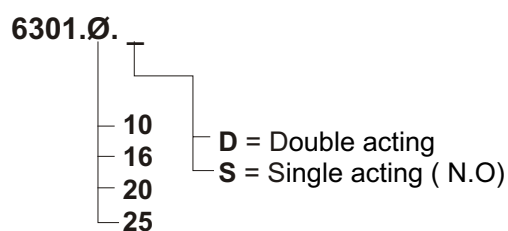
	Page
Angular grippers	
Standard version - series 6301	3.1
180° Angular gripper - series 6302	3.7
180° angular gripper, rack & pinion style series 6303	3.13
Parallel style grippers	
Standard version - series 6310	3.19
Wide opening - series 6311	3.25
3 fingers parallel style (air chuck) series 6312	3.31
Magnetic sensor	3.39



Pos.	Item	Qty.	Pos.	Item	Qty.
1	Central pin	1	10	Body	1
2	Fingers	2	11	Cushioning washer	1
3	Level shaft	2	12	Magnet	1
4	Side roller	2	13	Piston seal	1
5	Supplementary thrust roller	2	14	Circlip	1
6	Supplementary thrust piston	1	15	End cover seal	1
7	Piston	1	16	End cover	1
8	O-Ring seal	1	17	Spring (single acting version, N.O)	1
9	Supplementary piston seal	1			



Ordering code



Magnetic sensors : see page 3.38

Construction characteristics

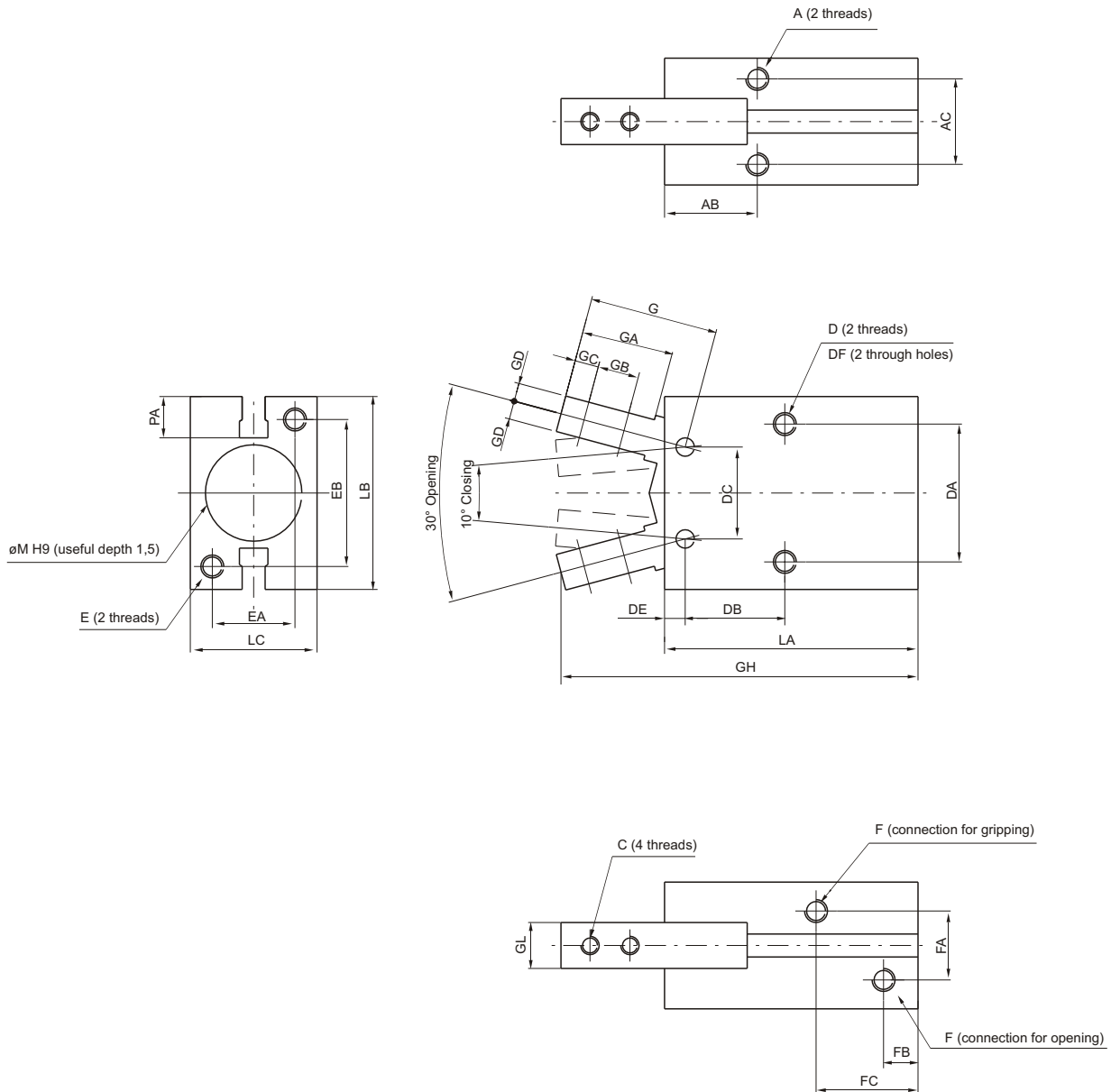
Body	oxidated aluminium
Piston	oxidated aluminium
Fingers	nitrate steel
End cover	oxidate steel
Seals	oil resistant NBR rubber

Technical characteristics

Fluid	filtered and lubricated or non lubricated air
Working pressure	1 ÷ 6 bar for double acting 2,5 ÷ 6 bar for single acting
Operating temperature	-5°C ÷ +70°C

Holding force (Nm) at 5 bar

Bore	Double acting	Single acting	Opening total stroke
10	0,1	0,07	-10° ÷ 30°
16	0,4	0,30	
20	0,7	0,55	
25	1,35	1,08	



Bore	A	AB	AC	C	D	DA	DB	DC	DE	DF	E	EA	EB
10	M3x0,5 (useful ul d ept h 6)	11,6	11,4	M2,5x0,45	M3x0,5 (useful ul d ept h 5)	16	12,8	10	2,8	2,6	M3x0,5 (useful ul d ept h 6)	12	18
16	M4x0,7 (useful ul d ept h 6,5)	14,6	16	M3x0,5	M4x0,7 (useful ul d ept h 8)	24	16,2	16	3,9	3,4	M4x0,7 (useful ul d ept h 8)	15	22
20	M5x0,8 (useful ul d ept h 8)	20,2	18,6	M4x0,7	M5x0,8 (useful ul d ept h 10)	30	21,7	20	4,5	4,3	M5x0,8 (useful ul d ept h 10)	18	32
25	M6 (useful ul d ept h 10)	23,9	22	M5x0,8	M6 (useful ul d ept h 12)	36	25,8	25	4,6	5,1	M6 (useful ul d ept h 12)	22	40

Bore	F	FA	FB	FC	G	GA	GB	GC	GD	GH	GL	LA	LB	LC	M	PA	Weight (gr.)
10	M3x0,5	10,4	7,2	18,8	17,2	12	5,7	3	2	52,4	6,4 ^{0/-0,1}	38,6	23	16,4	11 H9	5,4	40
16	M5x0,8	13	7	18,3	22,6	16	7	4	3,5	62,5	8 ^{0/-0,1}	44,6	30,6	23,6	17 H9	5,8	90
20	M5x0,8	15	7,5	22,2	28	20	9	5,2	4	78,7	10 ^{0/-0,1}	55,2	42	27,6	21 H9	9	180
25	M5x0,8	20	7,7	23,5	37,5	27	12	8	5	92	12 ^{0/-0,1}	60,4	52	33,6	26 H9	11,5	315

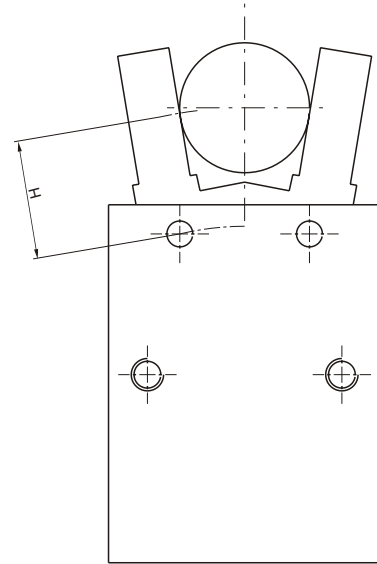
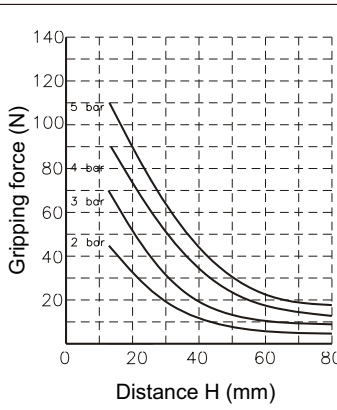
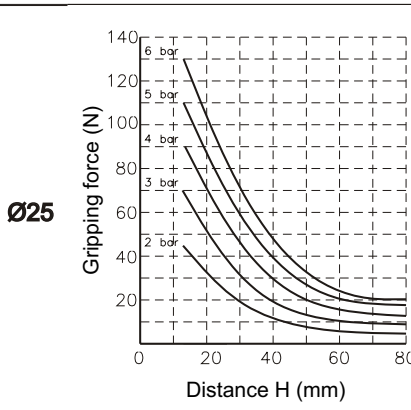
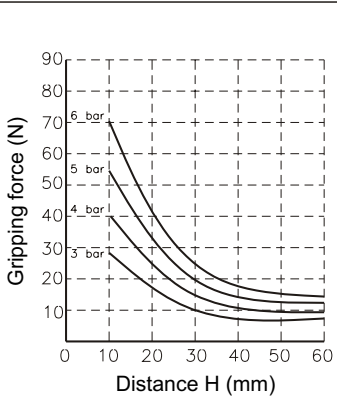
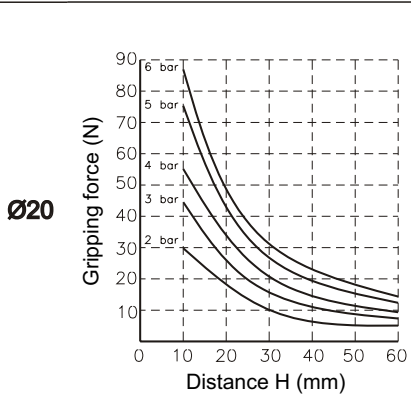
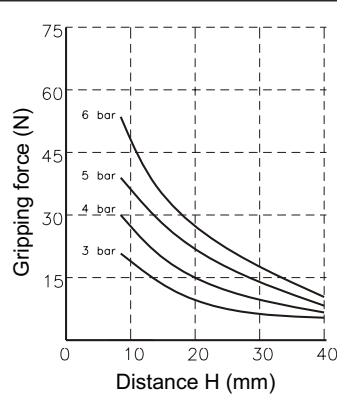
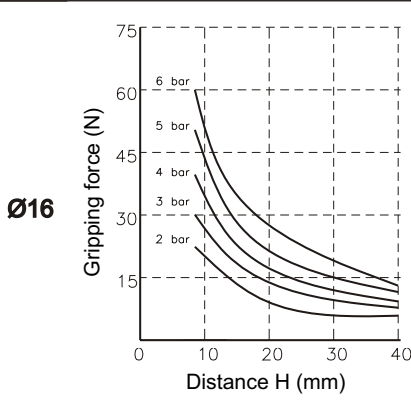
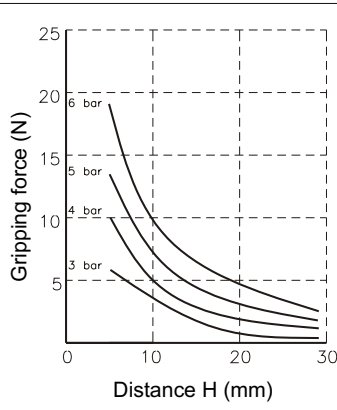
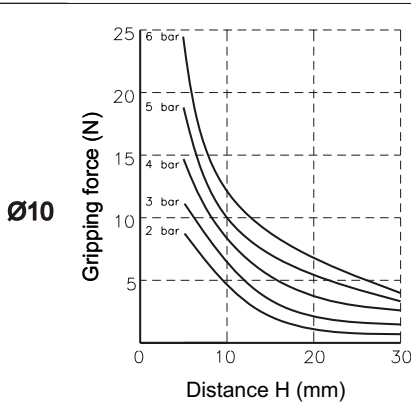


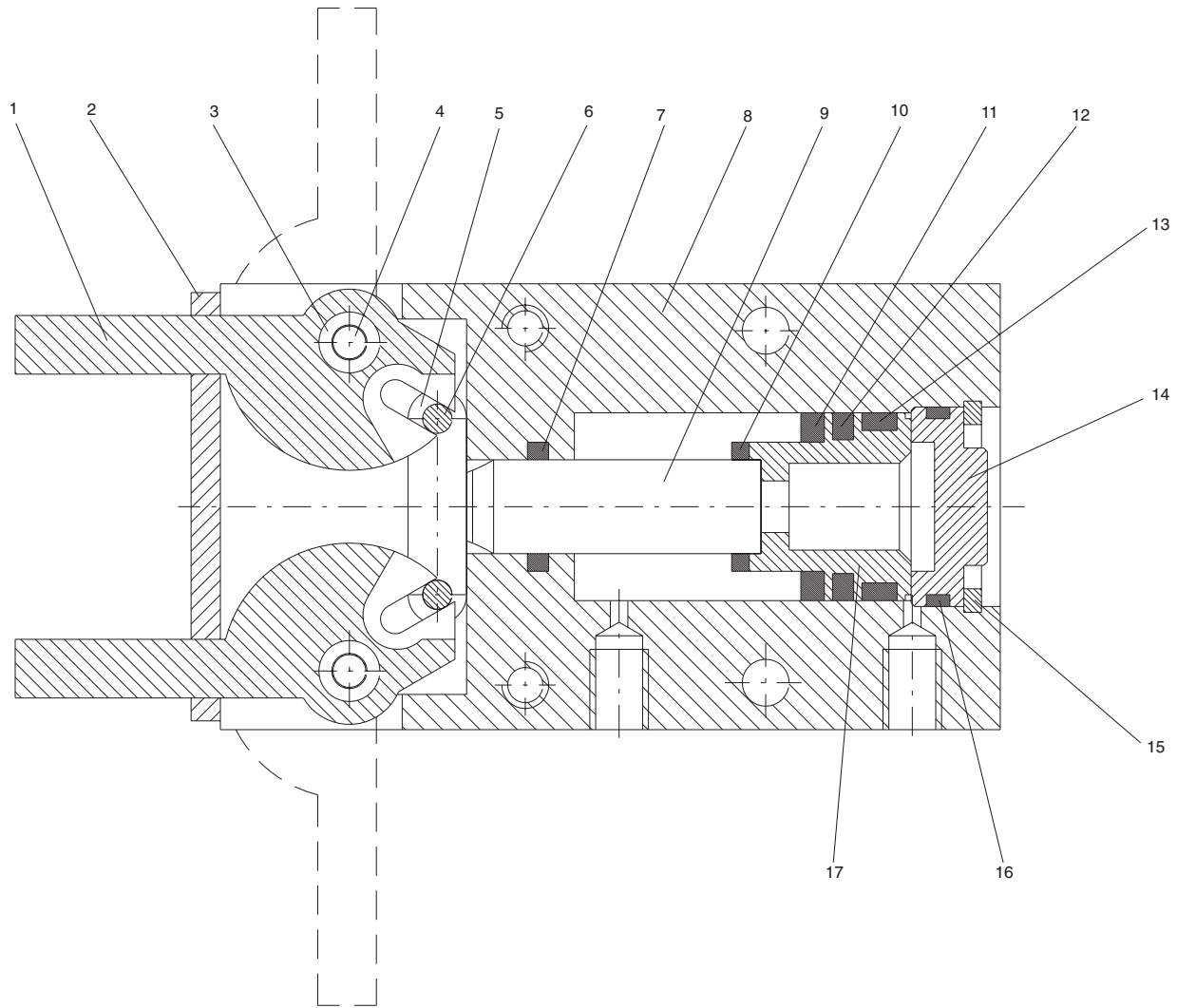
NOTE:

Bore selection should be made considering a holding force 10 to 20 times the component weight.
In case of acceleration/deceleration a further margin of safety should be considered.

Double acting

Single acting





Pos.	Item	Qty.	Pos.	Item	Qty.
1	Fingers	2	10	Cushioning	1
2	Closing plate	1	11	Magnet	1
3	Bearing	2	12	Piston seal	1
4	Pin	2	13	Sliding block	1
5	Thrust lever	1	14	End cover	1
6	Thrust pin	2	15	Circlip	1
7	Rod seal	1	16	End cover seal	1
8	Body	1	17	Piston	1
9	Rod	1			



Ordering code

6302.Ø.D

- 10
- 16
- 20
- 25

Magnetic sensors : see page 3.39

Construction characteristics

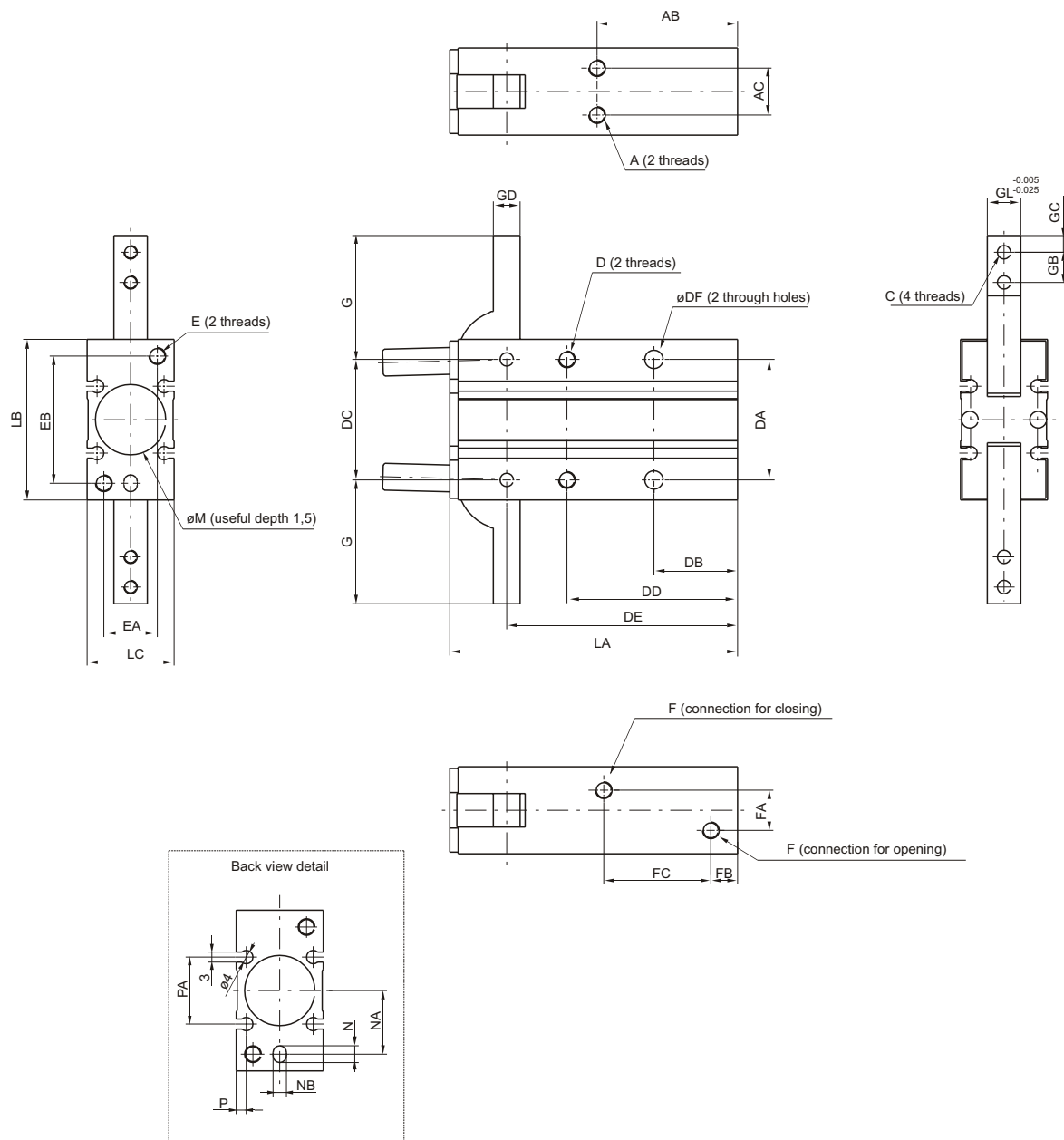
Body	aluminium
Piston	aluminium
Fingers	steel
End cover	aluminium

Technical characteristics

Fluid	filtered and lubricated air and non
Function	double acting
Working pressure	1 ÷ 6 bar
Working temperature	-5°C ÷ +70°C

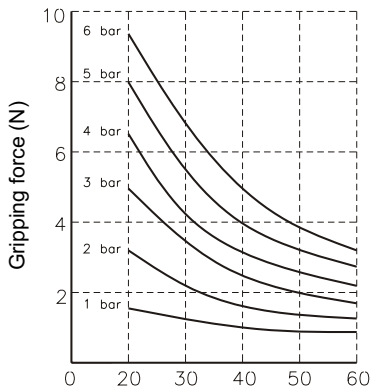
Holding force (Nm) at 5 bar

Bore	Holding force	Opening total Stroke
10	0,16	-3° ÷ 180°
16	0,54	
20	1,1	
25	2.28	



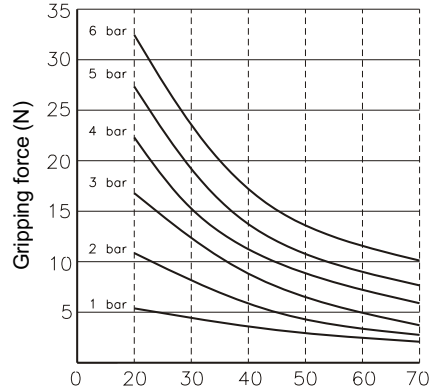
Bore	A	AB	AC	C	D	DA	DB	DC	DD	DE	DF	E	EA	EB
10	M3x0,5 (useful ul d ept h 4)	30	9	M3x0,5	M3x0,5 (useful ul d ept h 6)	24	18	22	35	47,5	3,4	M3x0,5 (useful ul d ept h 6)	9	24
16	M4x0,7 (useful ul d ept h 5)	33	12	M3x0,5	M4x0,7 (useful ul d ept h 8)	30	20	28	41	55,5	4,5	M4x0,7 (useful ul d ept h 8)	12	30
20	M5x0,8 (useful ul d ept h 8)	42	14	M4x0,7	M5x0,8 (useful ul d ept h 10)	36	25	36	51	69	5,5	M5x0,8 (useful ul d ept h 10)	16	38
25	M6x1 (useful ul d ept h 10)	50	16	M5x0,8	M6x1 (useful ul d ept h 12)	42	30	45	60	86	6,6	M6x1 (useful ul d ept h 12)	18	46

Bore	F	FA	FB	FC	G	GB	GC	GD	GL	LA	LB	LC	N	NA	ØM (H9)	ØNB (H9)	P	PA	Weight (gr.)
10	M5x0,8	3	7	23	23,5	6	3	4	6	58	30	15	4	9	11	3 (useful ul d ept h 3)	2	13	70
16	M5x0,8	8	7	25	28,5	7	4	5	8	69	38	20	4	15	17	3 (useful ul d ept h 3)	2,5	18	150
20	M5x0,8	2	8	32	37	9	5	8	10	86	48	26	5	19	21	4 (useful ul d ept h 4)	3	20	320
25	M5x0,8	14	8	42	45	12	6	10	12	107	58	30	5	23	26	4 (useful ul d ept h 4)	3	24	550



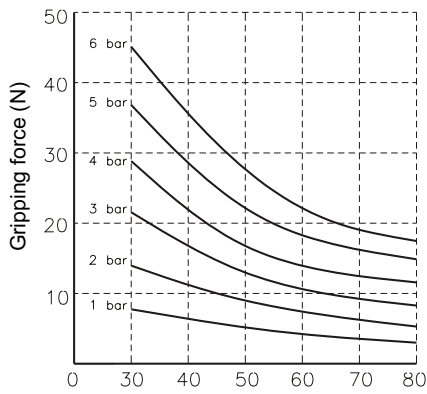
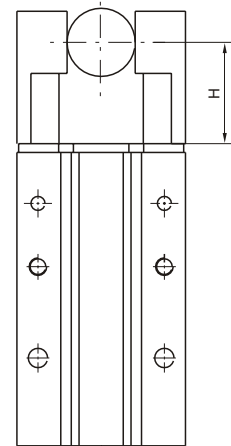
Ø10

Distance H (mm)



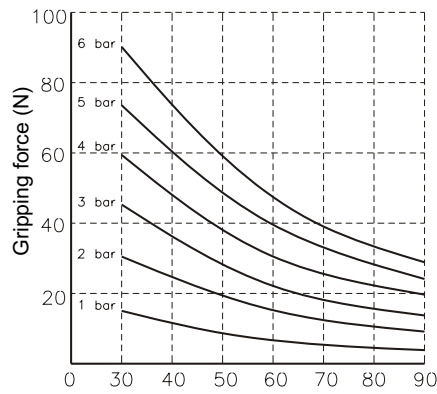
Ø16

Distance H (mm)



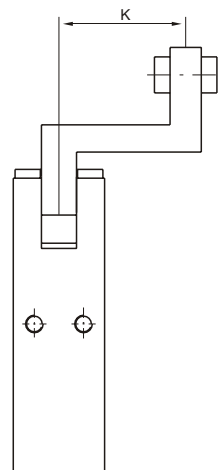
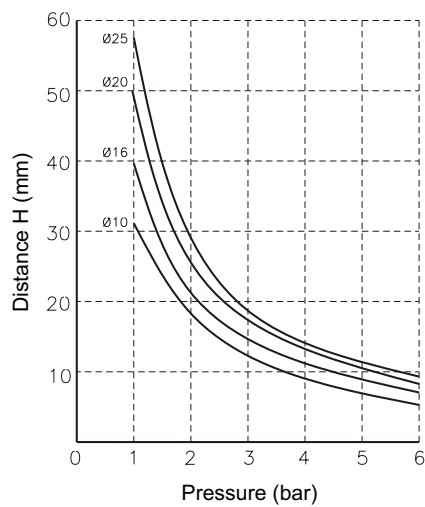
Ø20

Distance H (mm)



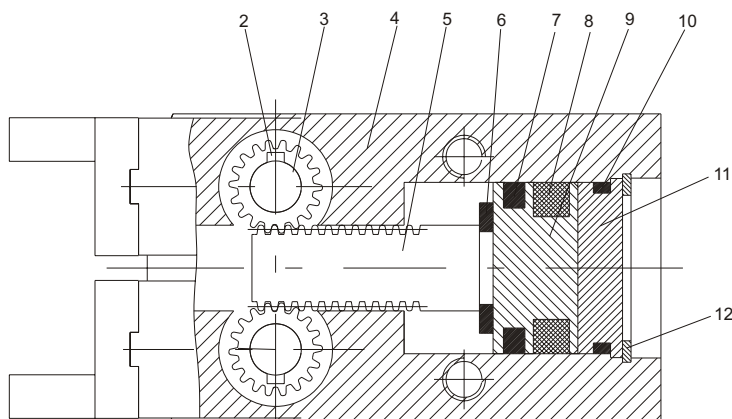
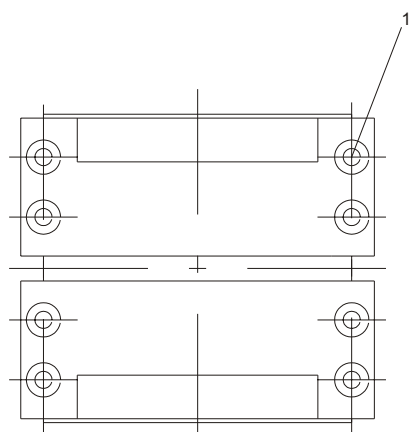
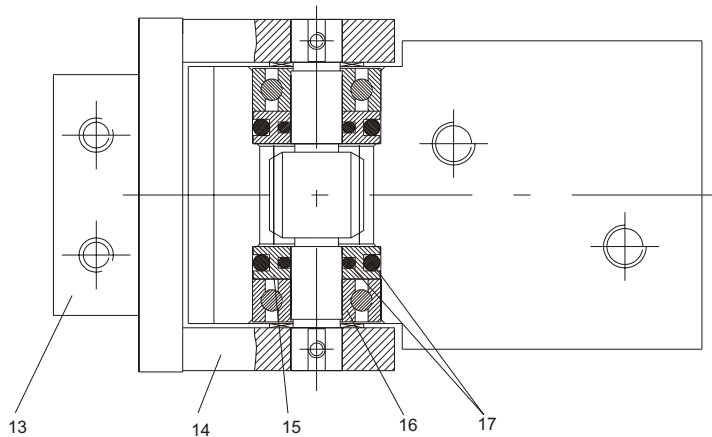
Ø25

Distance H (mm)



180° angular gripper rack & pinion style
Component description

Series 6303



3

Pos.	Item	Qty.	Pos.	Item	Qty.
1	Finger fixing screw	8	10	End cover seal	1
2	Key	2	11	End cover	1
3	Pinion	2	12	Circlip	1
4	Body	1	13	Interchangeable tinger	2
5	Rack	1	14	Fix tinger	2
6	Cushioning washer	1	15	Seal bushing	2
7	Piston seal	1	16	Bearing	2
8	Magnet	1	17	Seal	4
9	Piston	1			



Ordering code

6303.Ø.D.
— F = Fingers, end fixing
— L = Fingers, side fixing

— 20
— 25
— 32
— 40
— 50

Magnetic sensors : see page 3.38

Construction characteristics

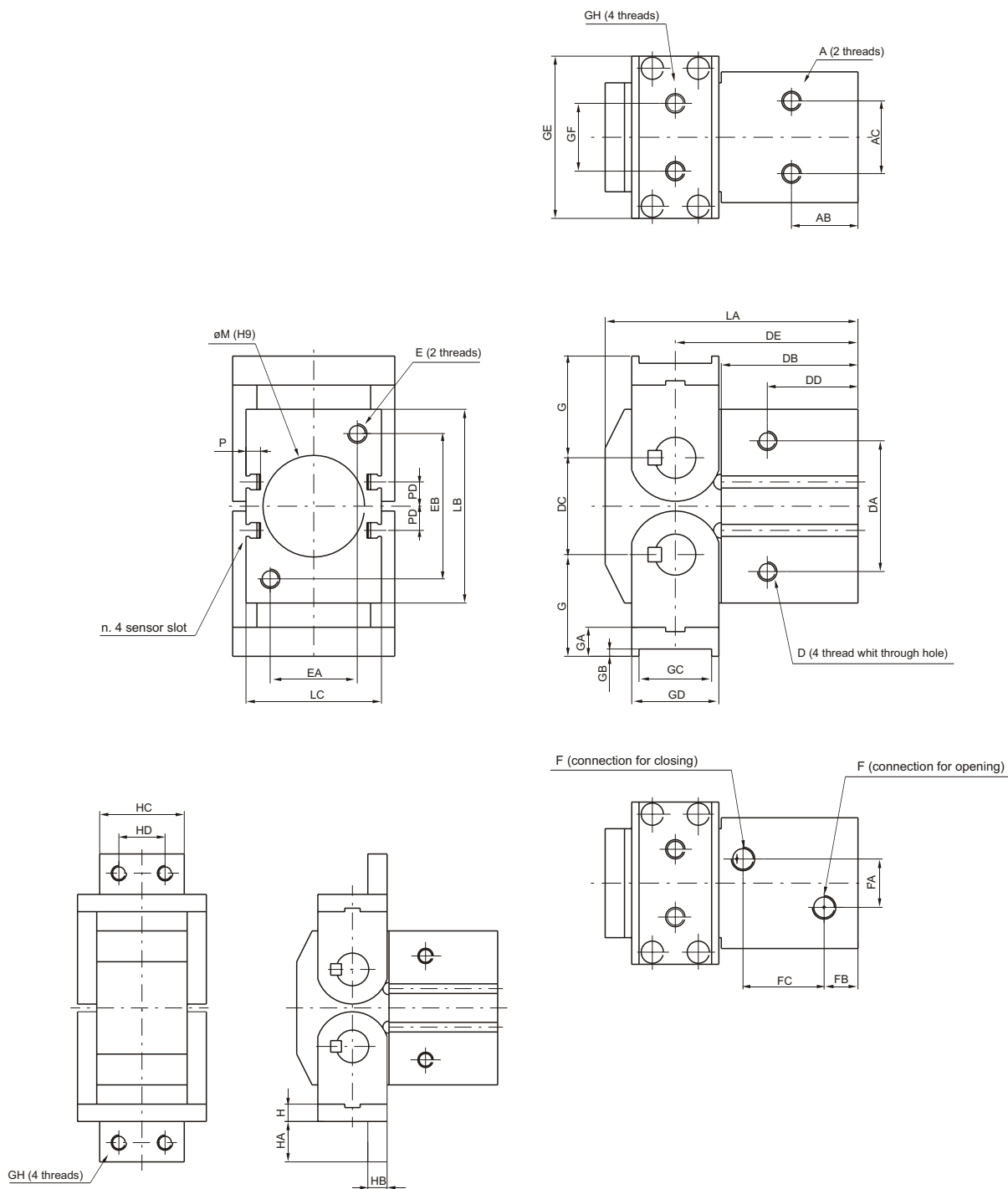
Body	aluminium
Piston	steel
Fingers	steel
End cover	aluminium

Technical characteristics

Fluid	filtered and non lubricated air
Function	double acting
Working pressure	1 ÷ 6 bar
Working temperature	-5°C ÷ +70°C

Holding force (Nm) at 5 bar

Bore	Holding force	Opening total Stroke
20	0,30	-5° ÷ 180°
25	0,7	-6° ÷ 180°
32	1,6	-5° ÷ 180°
40	3,7	-5° ÷ 180°
50	8,3	-4° ÷ 180°



Bore	A	AB	AC	D	DA	DB	DC	DD	DE	E	EA	EB	F	FA	FB	FC
20	M5 (usef ul d ept h 7)	17	20	M5 (usef ul d ept h 10)	27	35	18	23	45	M5 (usef ul d ept h 10)	26	26	M5	12	9	20
25	M6 (usef ul d ept h 10)	20	24	M6 (usef ul d ept h 12)	34	40	24	27	51	M6 (usef ul d ept h 12)	30	30	M5	16	10	23
32	M6 (usef ul d ept h 10)	21	24	M6 (usef ul d ept h 12)	42	47	30	29	61,5	M6 (usef ul d ept h 12)	30	45	G1/8	20	13	25
40	M8 (usef ul d ept h 15)	27,5	30	M8 (usef ul d ept h 16)	54	56,5	40	37,5	75,5	M8 (usef ul d ept h 15)	36	60	G1/8	20	14	33,5
50	M10 (usef ul d ept h 20)	36	40	M10 (usef ul d ept h 20)	70	69	56	48	96	M10 (usef ul d ept h 20)	40	80	G1/4	30	16	44

Bore	G	GA	GB	GC	GD	GE	GF	GH	H	HA	HB	HC	HD	LA	LB	LC	ØM (H9)	P	PD	Weight (gr.)
20	23	7	2	12	16	41	18	M4	5	10	5	28	14	60	36	36	21 (usef ul d ept h 3)	6	4	300
25	27	8	2	17	21	45	20	M5	6	12	6	30	16	69	45	40	26 (usef ul d ept h 3)	5,5	4,5	500
32	32	9	2	23	27	51	20	M6	7	14	7	34	18	83,5	58	45	34 (usef ul d ept h 4)	5,5	11	900
40	42	12	3	30	36	67	28	M8	9	21	10	44	24	104,5	80	56	42 (usef ul d ept h 4)	6	10	2100
50	58	17	4	44	52	85	38	M10	13	24	13	58	30	136	112	66	52 (usef ul d ept h 5)	6	13	5000

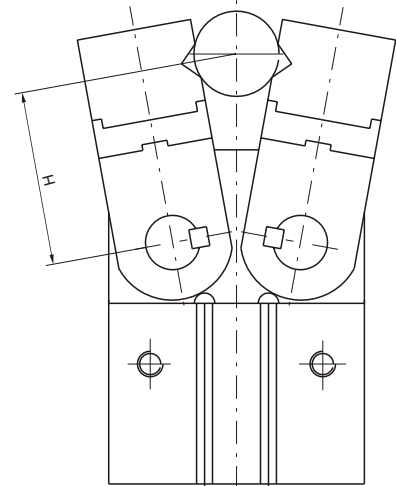
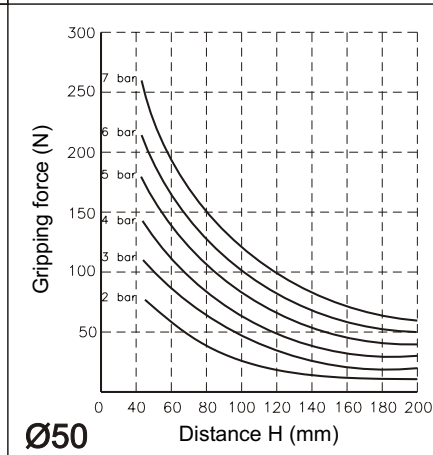
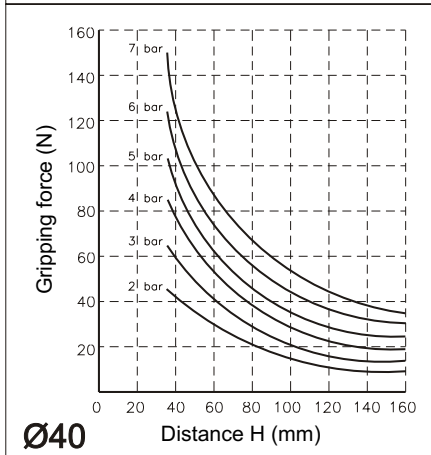
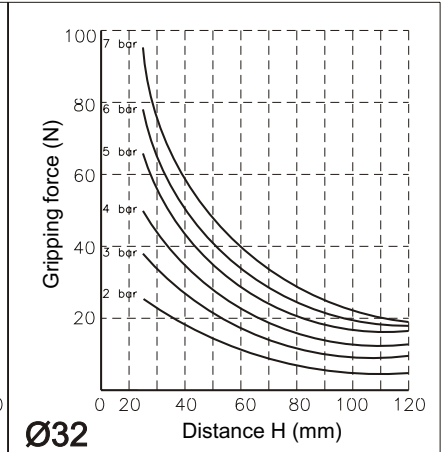
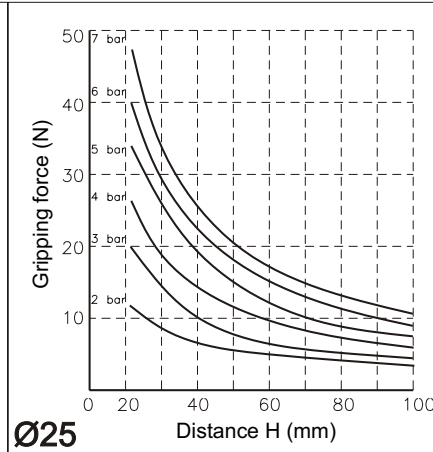
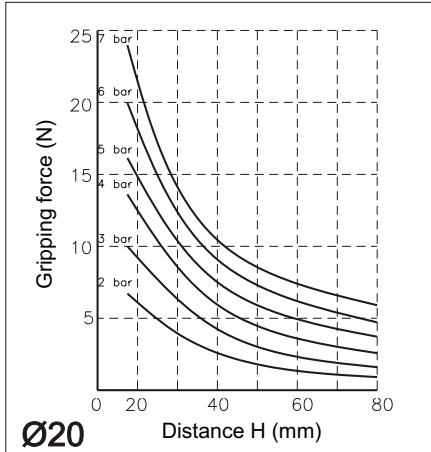


Gripping force

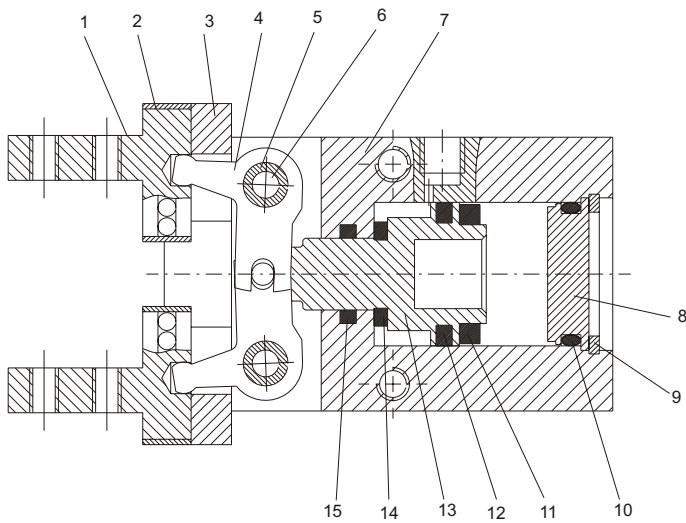
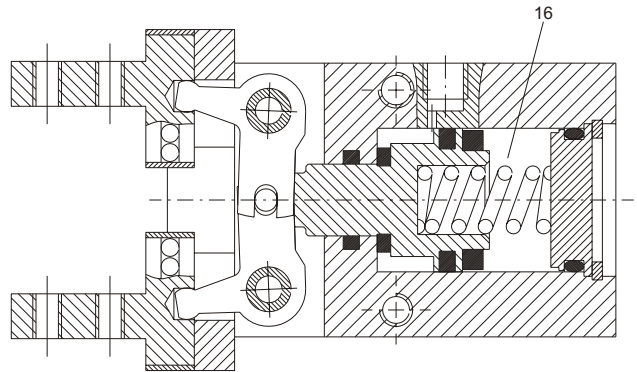
NOTE:

selection bore depends by considering a holding force 10÷20 times that of component weight.

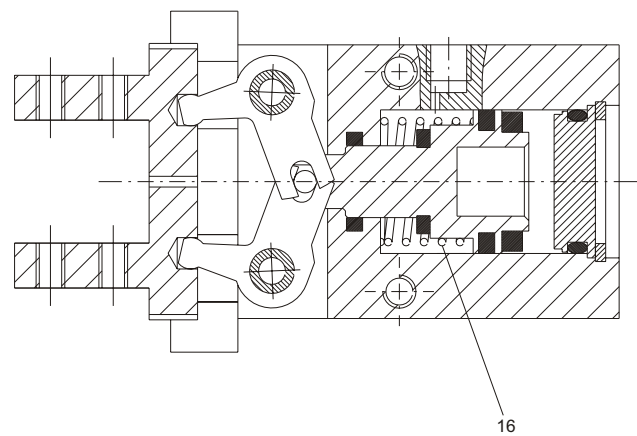
In case of acceleration/deceleration a further margin of safety should be considered.



**Single acting version
N.O.**



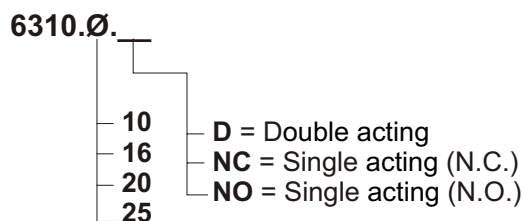
**Single acting version
N.C.**



Pos.	Item	Qty.	Pos.	Item	Qty.
1	Finger	2	10	End cover seal	1
2	Closing plate	4	11	Magnet	1
3	Guide	1	12	Piston seal	1
4	Lever	1	13	Piston	1
5	Bushing	2	14	Cushioning washer	1
6	Pin	2	15	Rod seal	1
7	Body	1	16	Spring	1
8	End cover	1			
9	Circlip	1			



Ordering code



Magnetic sensors : see page 3.38 e 3.39

Construction characteristics

Body	aluminium
Piston	aluminium or stainless steel (depending on the bore)
Fingers	steel
End cover	aluminium
Seals	oil resistant NBR rubber

Construction characteristics

Fluid	filtered and non lubricated air
Working pressure	double acting : 2 ÷ 7 bar for ø10 - 1 ÷ 7 for other bores single acting : 3,5 ÷ 7 bar for ø10 - 2,5 ÷ 7 for other bores
Operating temperature	-5°C ÷ +70°C

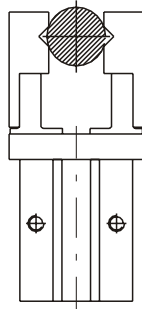
Holding force per finger

Bore	Force (N)			
	e	i	e	i
ø10	9,8	17	6,3	12
ø16	30	40	24	31
ø20	42	66	28	56
ø25	65	104	45	83
double acting			N.O.	N.C.
			single acting	

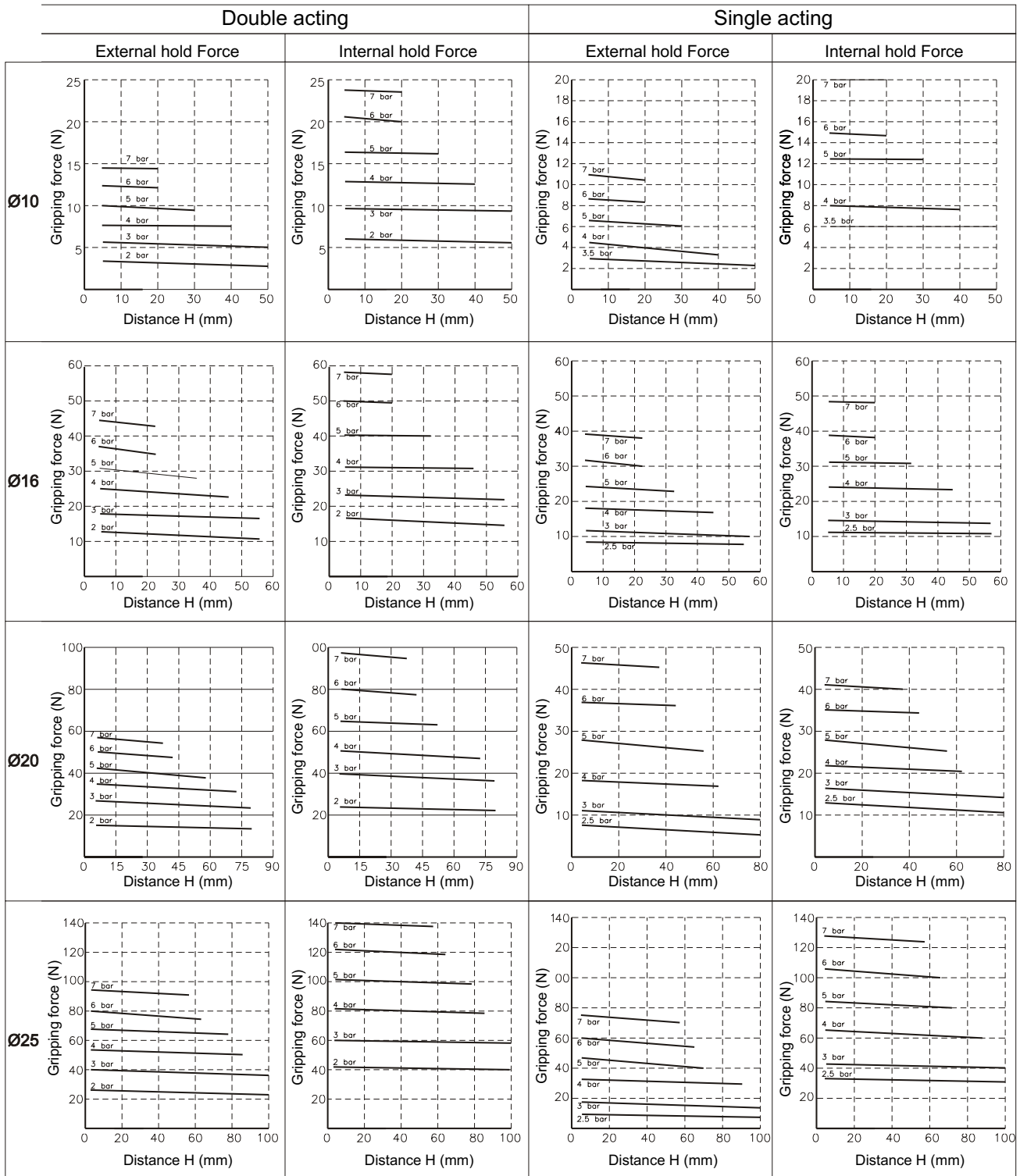
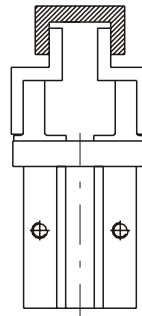
e = external holding force
i = internal holding force

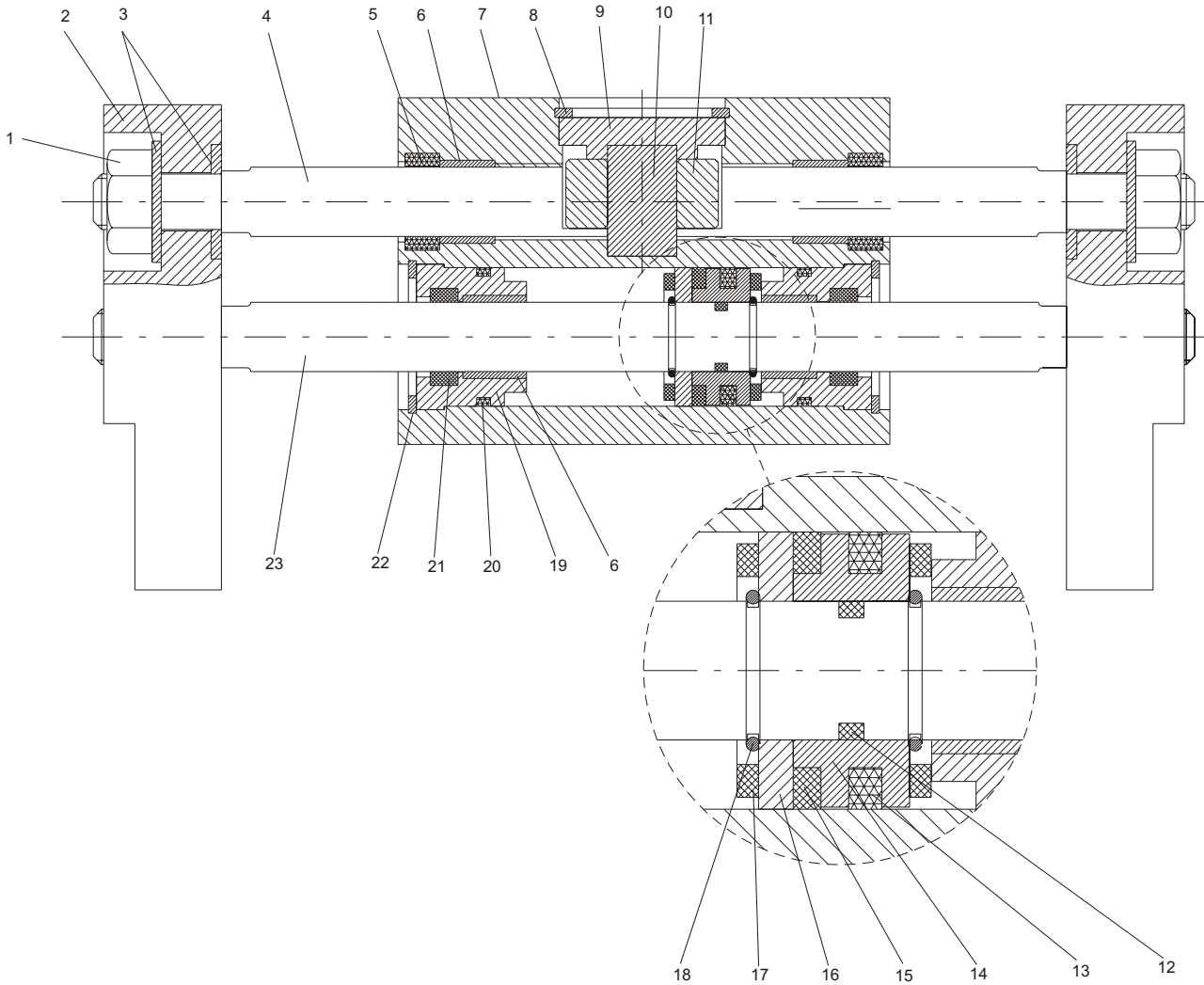


EXTERNAL HOLD

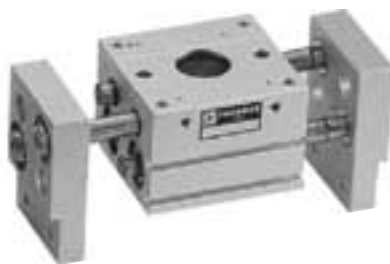


INTERNAL HOLD





Pos.	Item	Qty.	Pos.	Item	Qty.
1	Nut	4	13	Piston seal	2
2	Finger	2	14	Piston	2
3	Washer	8	15	Magnet	2
4	Rack	2	16	Piston closing washer	2
5	Rod seal	8	17	Cushioning washer	4
6	Rack guiding bush	4	18	Holding ring	4
7	Body	1	19	Bushing	4
8	Circlip	1	20	Bushing seal	4
9	End cover	1	21	Rod seal	4
10	Pinion axis	1	22	Circlip	4
11	Pinion	1	23	Piston rod	2
12	Seal	2			



Ordering Code

6311.Ø.D.	16	20	25	32	40	Ordering code options	Stroke				
							30	40	50	70	100
						1	60	80	100	120	160
						2	80	100	120	160	200
							Ø16	Ø20	Ø25	Ø32	Ø40
							Bore				

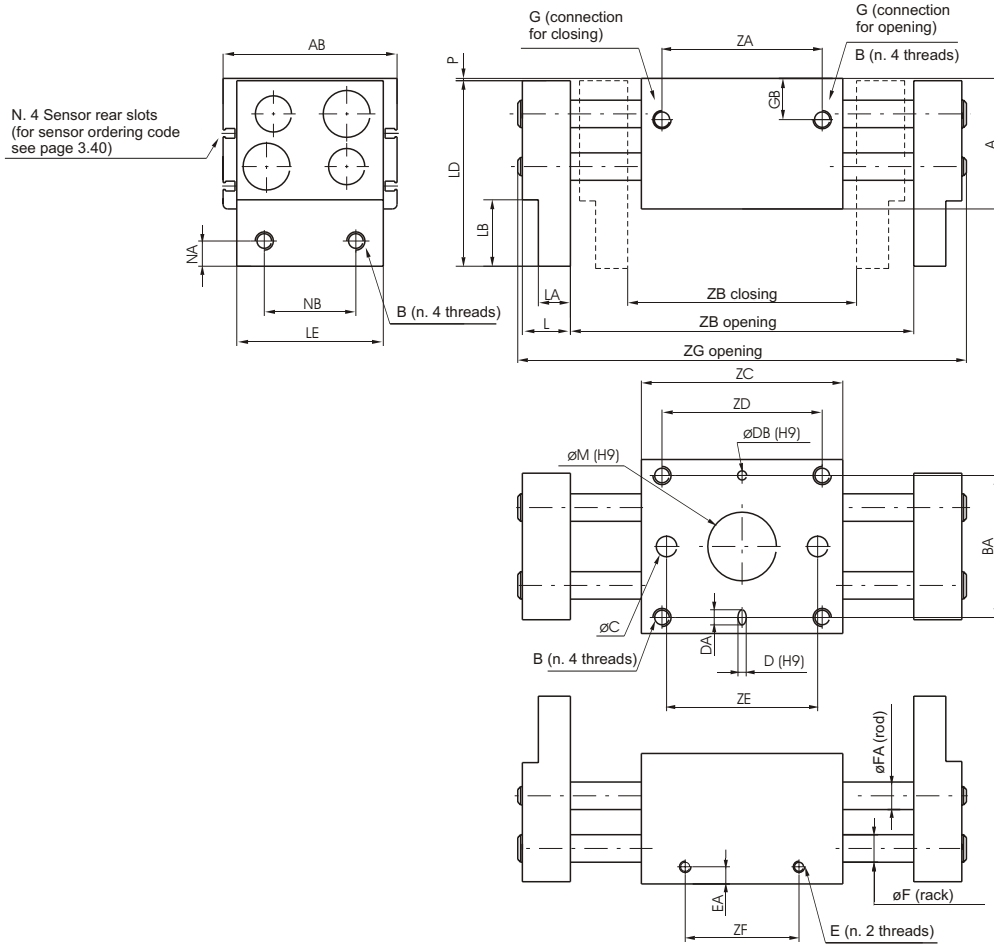
Magnet sensors: see page 3.40

Construction characteristics

Body	aluminium
Piston	brass
Fingers	aluminium
Rod	steel
Rack	steel
Pinion	steel

Technical characteristics

Fluid	filtered and non lubricated air
Function	double acting
Working pressure	1,6 bar
Working temperature	-5°C ÷ +70°C



Bore	A	AB	B	BA	ϕC	D (H9)	DA	ϕDB (H9)	E	EA	ϕF	FA	G	GB	L	LA
Ø16	39	55	M5x0,8 (useful depth h 10)	42	5,5	3 (depth3)	4	3 (depth3)	M5x0,8 (useful depth h 7)	10	8	8	M5x0,8	10	13	9
Ø20	46	65	M6x1 (useful depth h 12)	52	6,6	4 (depth4)	5	4 (depth4)	M6x1 (useful depth h 7)	11	10	10	M5x0,8	11	17	12,5
Ø25	52	76	M8x1.25 (useful depth h 16)	62	9	4 (depth4,5)	5	4 (depth4,5)	M8x1.25 (useful depth h 7)	12,5	12	12	M5x0,8	16	21	14
Ø32	68	82	M8x1.25 (useful depth h 16)	64	/	6 (depth8)	7	6 (depth8)	M8x1.25 (useful depth h 11)	22	14	16	G1/8	16	24	15
Ø40	79	98	M10x1.5 (useful depth h 20)	76	/	6 (depth8)	7	6 (depth8)	M10x1.5 (useful depth h 12)	28	16	20	G1/8	18	28	18

Bore	LB	LD	LE	ϕM (H9)	N	NA	NB	P
Ø16	19	57,5	43	23 (depth1,5)	M5x0,8	8	25	0,5
Ø20	24	69	54	27 (depth1,5)	M6x1	10	30	1
Ø25	29	80	64	32 (depth1,5)	M8x1,25	12	40	1
Ø32	32	99	70	35 (depth2,5)	M10x1,5	15	50	1
Ø40	38	176	86	40 (depth2,5)	M12x1,75	18	60	1

Bore	Opening/ Closing Stroke	ZA	ZB		ZC	ZD	ZE	ZF	ZG opening	Weight (gr.)
			closing	opening						
Ø16	30	26	68	98	60	45	40	28	128	600
	60	50	110	170	90	75	70	58	200	800
	80	70	130	210	110	95	90	78	240	950
Ø20	40	32	82	122	71	58	54	38	160	1000
	80	68	142	222	113	100	96	80	260	1500
	100	88	162	262	133	120	116	100	300	1700
Ø25	50	38	100	150	88	70	66	48	196	1700
	100	86	182	282	142	124	120	102	328	2500
	120	104	200	320	160	142	138	120	366	2800
Ø32	70	56	150	220	110	86	/	60	272	2900
	120	104	198	318	158	134	/	108	370	3800
	160	148	242	402	202	178	/	152	454	4700
Ø40	100	72	188	288	148	116	/	80	348	5300
	160	130	246	406	206	174	/	138	466	6850
	200	170	286	486	246	214	/	178	546	7900



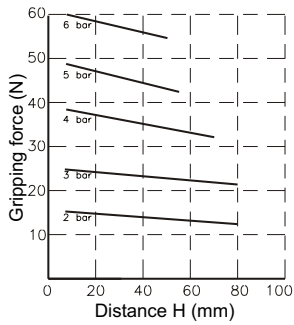
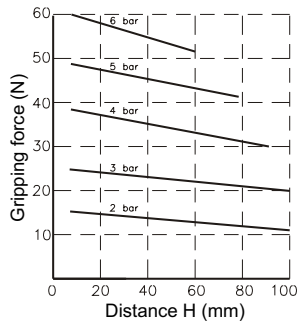
Holding force

Opening / Closing Stroke

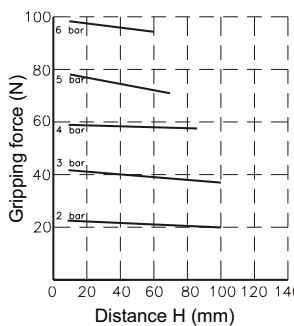
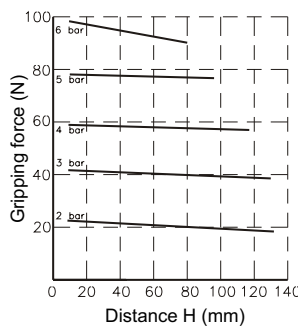
Basic Version

Versions 1 & 2

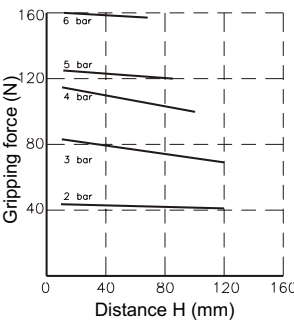
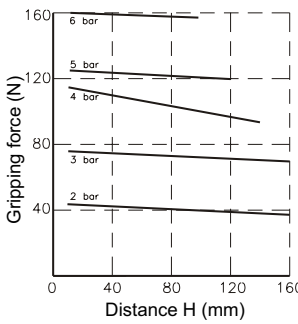
Ø16



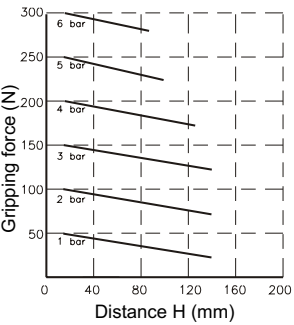
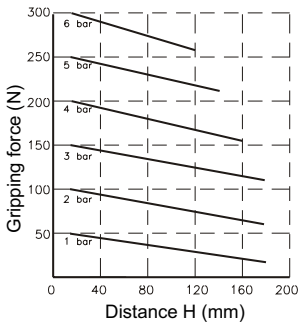
Ø20



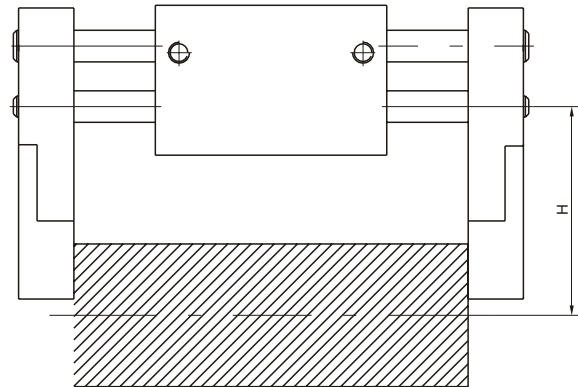
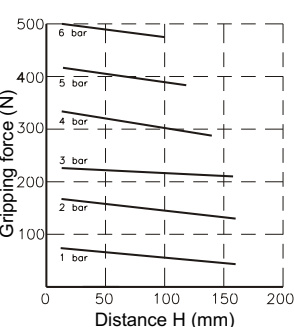
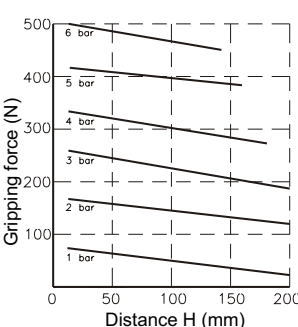
Ø25



Ø32



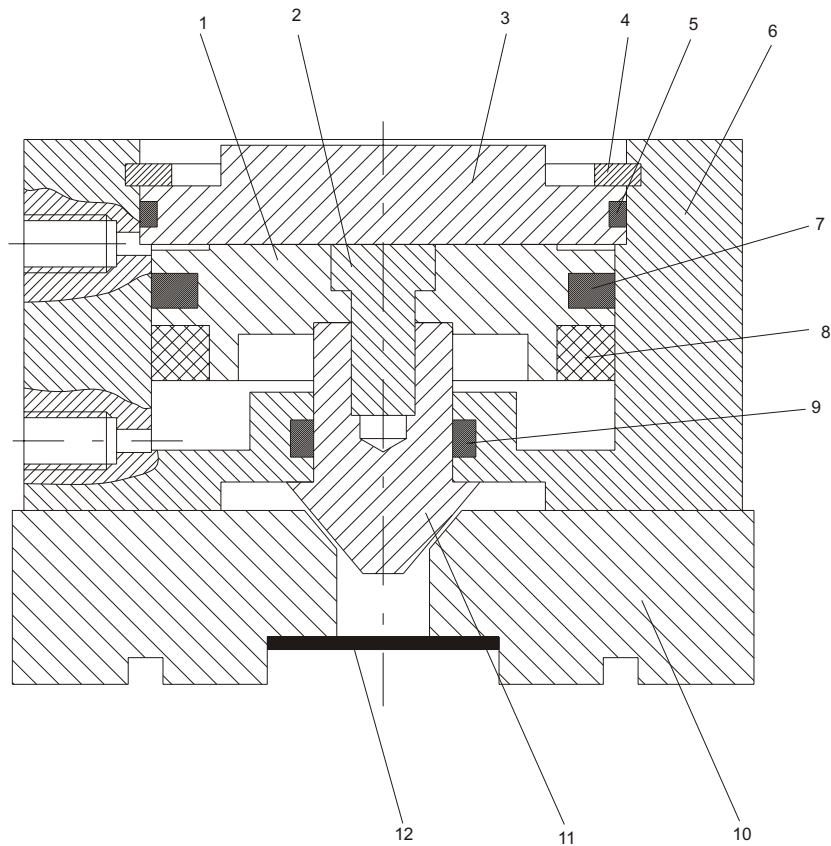
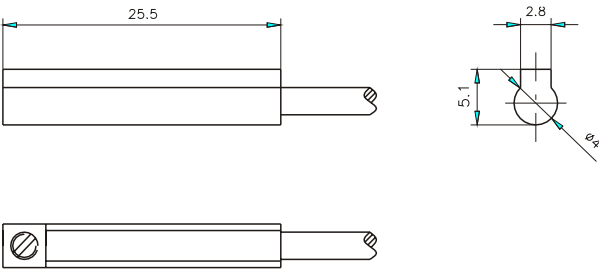
Ø40



3 Finger parallel style pneumatic grippers

Component description

Series 6312



3

Pos.	Item	Qty.	Pos.	Item	Qty.
1	Piston	1	7	Piston seal	1
2	Piston nut	1	8	Magnet	1
3	End plate	1	9	Wedge seal	1
4	Circlip	1	10	Fingers	3
5	End plate seal	1	11	Wedge	1
6	Body	1	12	Cap	1



Ordering code

6312.Ø.D

- 16
- 20
- 25
- 32
- 40
- 50
- 63
- 80
- 100
- 125

For sensors P/N see page 3.38 e 3.39

Construction characteristics

Body	aluminium
Piston	aluminium
Wedge	steel
Fingers	steel

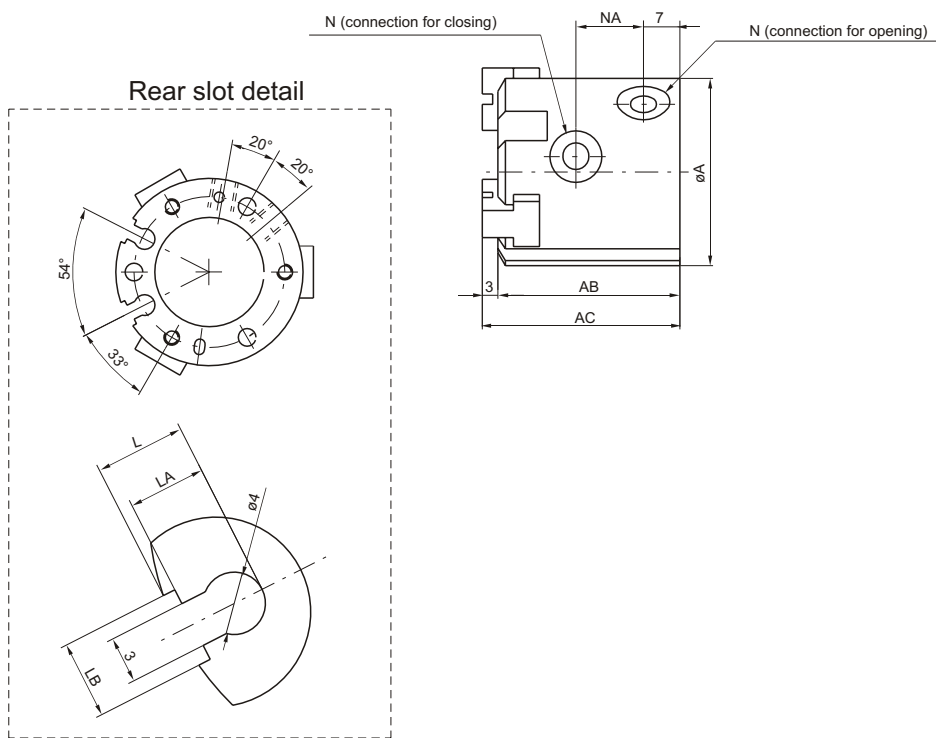
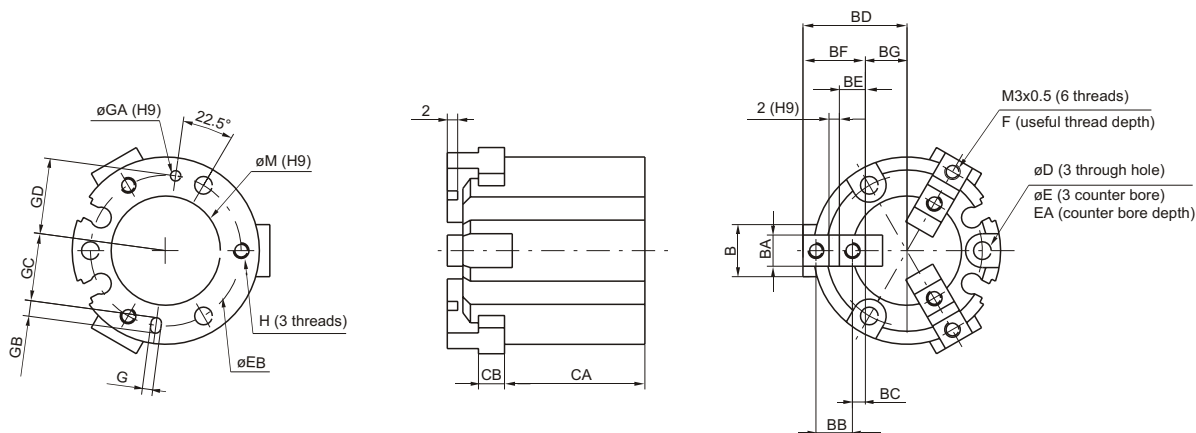
Technical characteristics

Fluid	filtered and non lubricated air
Function	double acting
Working pressure	2÷6 bar (Ø16 - Ø20 - Ø25) - 1÷6 bar (Ø32 ÷ Ø125)
Working temperature	-5°C ÷ +70°C

3 Finger parallel style pneumatic grippers

Overall dimensions

Series 6312



Bore	ØA	AB	AC	B	BA (h9)	BB	BC	BD	BE	BF	BG	CA	CB	D	E	EA	EB	F	G (H9)	ØGA (H9)	GB		
Ø16	30	32	35	8	5	6	2	17	15	4	10	7	5	25	4	3,4	6,5	8	25	5	2 (depth2)	2 (depth2)	3
Ø20	36	35	38	10	6	7	2,5	20	18	5	12	8	6	27	5	3,4	6,5	9,5	29	6	2 (depth2)	2 (depth2)	3
Ø25	42	37	40	12	6	8	3	24	21	6	14	10	7	28	5	4,5	8	10	34	6	3 (depth3)	3 (depth3)	5

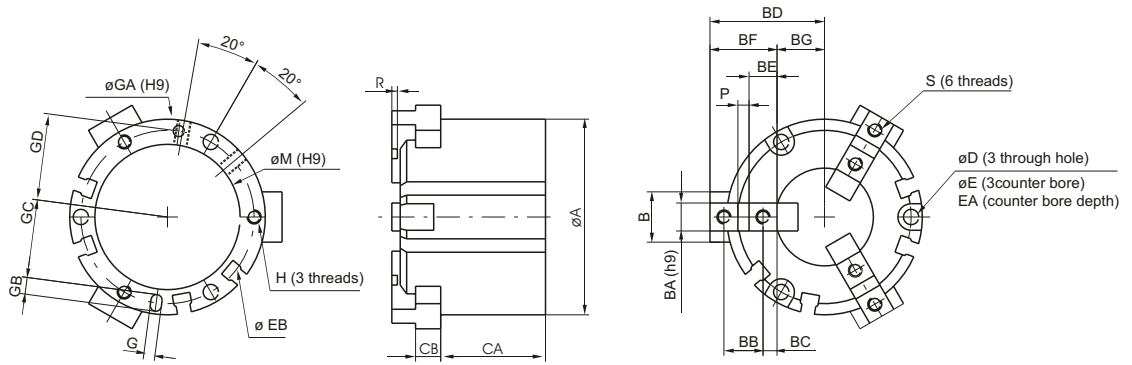
open close open close

Bore	GC	GD	H	L	LA	LB	ØM (H9)	N	NA
Ø16	11	12,5	M3x0,5 (useful depth 4,5)	5	-	-	17 (depth 1,5)	M3x0,5	11
Ø20	13	14,5	M3x0,5 (useful depth 6)	6	5	5	21 (depth 1,5)	M5x0,8	13
Ø25	14,5	17	M4x0,7 (useful depth 6)	6,5	5	5	26 (depth 1,5)	M5x0,8	15

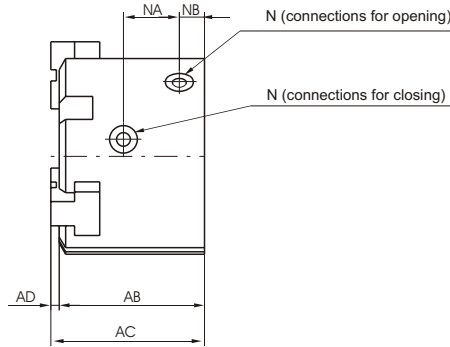
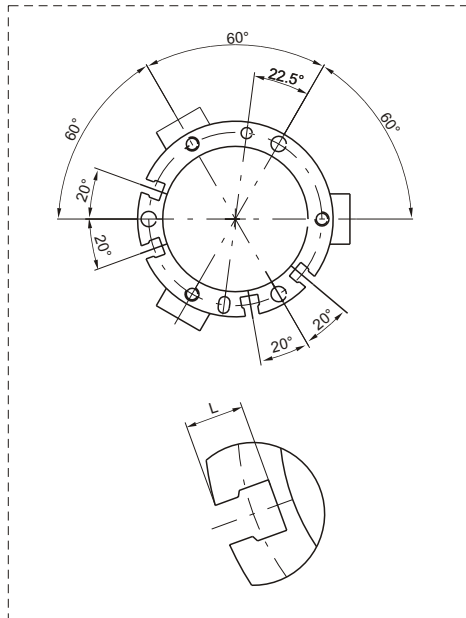


3 Finger parallel style pneumatic grippers
Overall dimensions $\varnothing 32+80$

Series 6312



Sensor slots detail

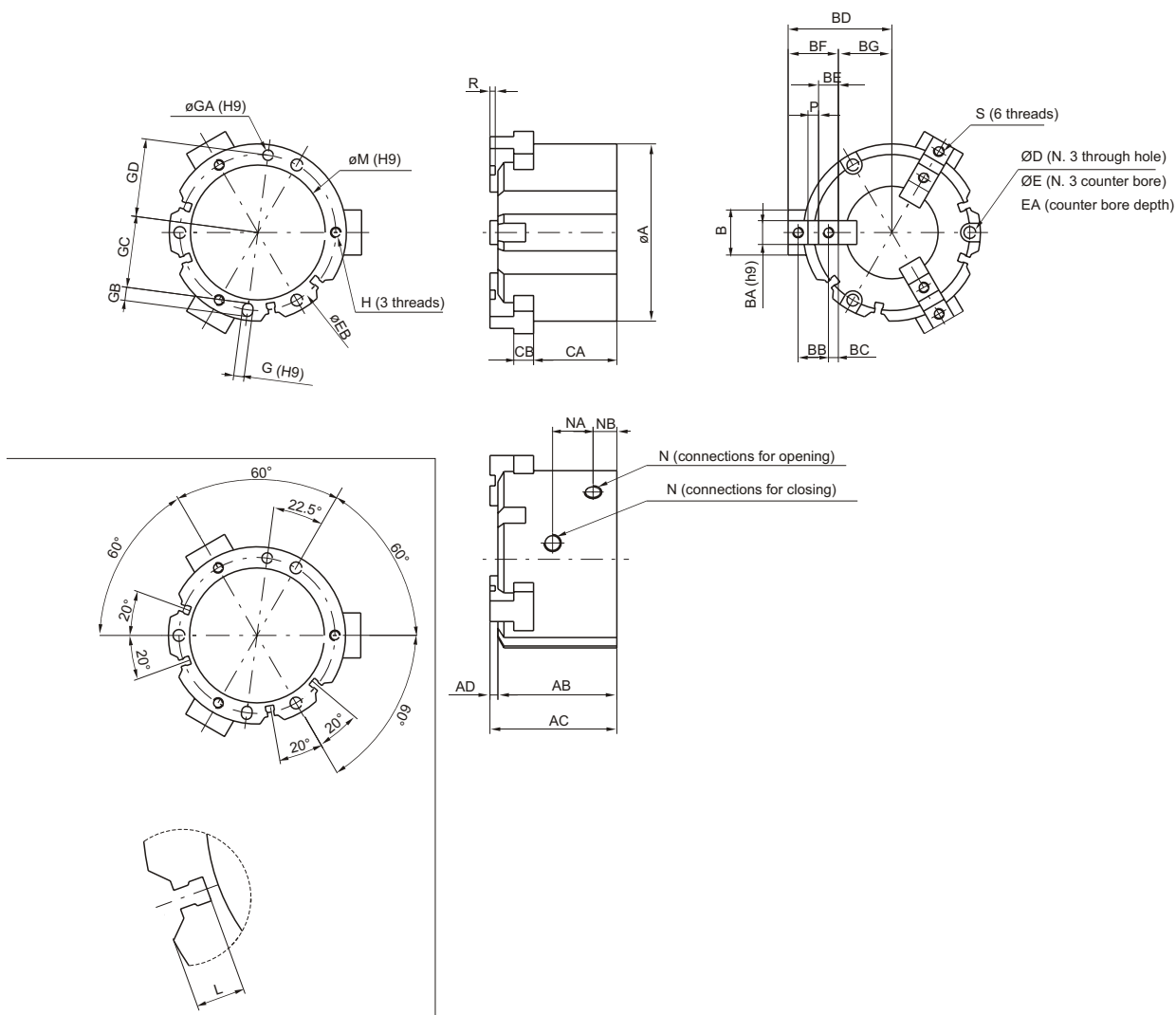


Bore	ØA	AB	AC	AD	B	BA (h9)	BB	BC	BD		BE	BF	BG		CA	CB	D	E	EA	EB	H
Ø32	52	41	44	3	14	8	11	4,5	32	28	9	20	12	8	30,5	6	4,5	8	9	44	M4x0,7 (usef ul d ept h 6)
Ø40	62	44	47	3	16	8	12	4,5	35	31	9	21	14	10	32	7	5,5	9,5	9	53	M5x0,8 (usef ul d ept h 7,5)
Ø50	70	52	55	3	18	10	14	5	41	35	10	24	17	11	37,5	9	5,5	9,5	12	62	M5x0,8 (usef ul d ept h 10)
Ø63	86	62	66	4	24	12	17	5,5	51	43	11	28	23	15	44	11	6,6	11	14	76	M6x 1 (usef ul d ept h 9)
Ø80	106	77	82	5	28	14	20	6	63,5	53,5	12	32	31,5	21,5	56	12	6,6	11	19	95	M6x 1 (usef ul d ept h 12)
									open	close			open	close							

Bore	G (H9)	ØGA (H9)	GB	GC	GD	L	N	ØM (H9)	NA	NB	P (h9)	R	S
Ø32	3 (usef ul d ept h 3)	3 (usef ul d ept h 3)	5	19,5	22	6	M5x0,8	34 (usef ul d ept h 2)	16	8	2	2	M4x0,7 (usef ul d ept h 8)
Ø40	4 (usef ul d ept h 4)	4 (usef ul d ept h 4)	6	23,5	26,5	8	M5x0,8	42 (usef ul d ept h 2)	17	9	3	2	M4x0,7 (usef ul d ept h 8)
Ø50	4 (usef ul d ept h 4)	4 (usef ul d ept h 4)	6	28	31	7	M5x0,8	52 (usef ul d ept h 2)	20	9	4	2	M5x0,8 (usef ul d ept h 10)
Ø63	5 (usef ul d ept h 5)	5 (usef ul d ept h 5)	7	34,5	38	7,5	M5x0,8	65 (usef ul d ept h 2,5)	22	12	6	3	M5x0,8 (usef ul d ept h 10)
Ø80	6 (usef ul d ept h 6)	6 (usef ul d ept h 6)	8	43,5	47,5	9	G1/8	82 (usef ul d ept h 3)	27	13,5	8	4	M6x 1 (usef ul d ept h 12)

3 Finger parallel style pneumatic grippers
Overall dimensions $\varnothing 100 \div 125$

Series 6312



3

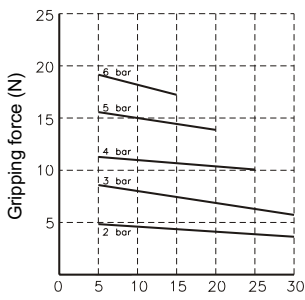
Bore	ØA	AB	AC	AD	B	BA (h9)	BB	BC	BD	BE	BF	BG	CA	CB	ØD	ØE	EA	EB	G (H9)		
Ø100	134	90	96	6	34	18	23	7,5	78	66	15	38	40	28	63	15	9	14	21	118	8 (useful depth h 6)
Ø125	166	114	122	8	40	22	31	10,5	98	82	21	52	46	30	84	18	11	17,5	34	148	10 (useful depth h 8)
									open	close											

Bore	ØGA (H9)	GB	GC	GD	H	L	ØM (H9)	N	NA	NB	P (h9)	R	S
Ø100	8 (useful depth h 6)	10	54	59	M8x1,25 (useful depth h 16)	13	102 (useful depth h 4)	G1/4	30,6	18	8	4	M8x1,25 (useful depth h 16)
Ø125	10 (useful depth h 8)	12	68	74	M10x1,5 (useful depth h 20)	15	130 (useful depth h 6)	G3/8	38	23,5	10	6	M10x1,5 (useful depth h 20)

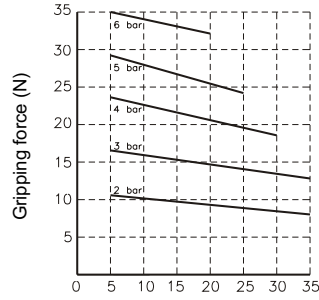


3 Finger parallel style pneumatic grippers Operating conditions

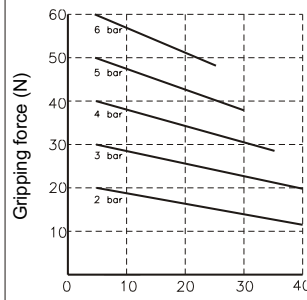
Series 6312



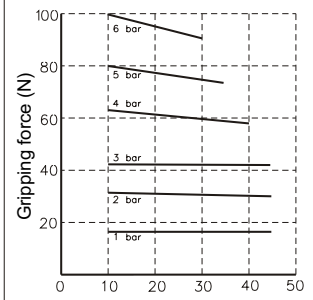
Ø16 Distance H (mm)



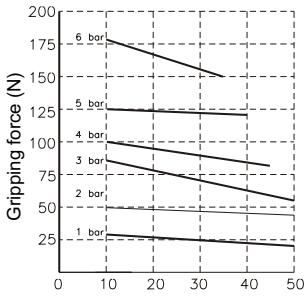
Ø20 Distance H (mm)



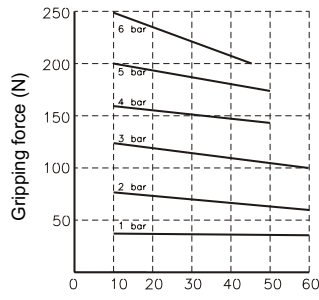
Ø25 Distance H (mm)



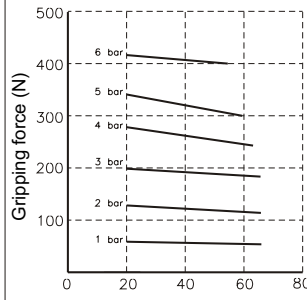
Ø32 Distance H (mm)



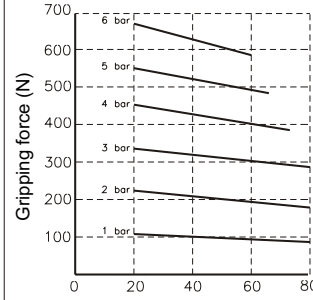
Ø40 Distance H (mm)



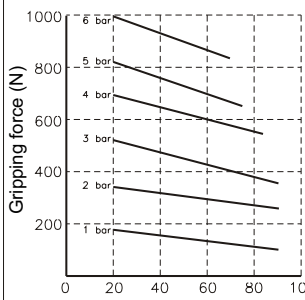
Ø50 Distance H (mm)



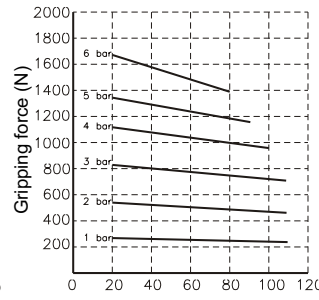
Ø63 Distance H (mm)



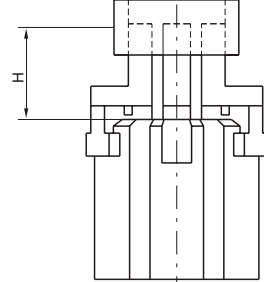
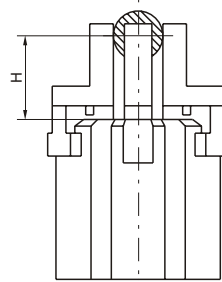
Ø80 Distance H (mm)



Ø100 Distance H (mm)



Ø125 Distance H (mm)

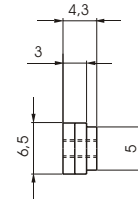
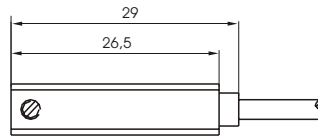




Sensor c/w 2,5 m. cable



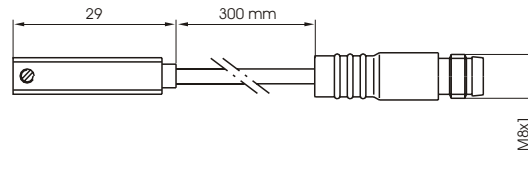
Weight gr. 27



Sensor c/w M8 connector (300 mm cable)



Weight gr. 15



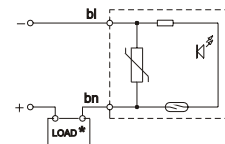
Ordering codes

1580.U	Reed bulb sensor with led and 2.5 m cable
1580.HAP	PNP sensor Hall effect with led and 2.5 m cable
MRS.U	Reed bulb sensor with led and connector
MHS.P	PNP sensor Hall effect with led and connector
MC1	M8 in line connector with 2.5 m cable (2 wires)
MC2	M8 in line connector with 5 m cable (2 wires)
MCH1	M8 in line connector with 2.5 m cable (3 wires)
MCH2	M8 in line connector with 5 m cable (3 wires)

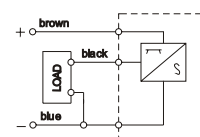
Technical characteristics

	1580.U	MRS.U	1580.HAP	MHS.P
Type of contact	N.O.			
Maximum current (pulses of 0.5 sec)	0,1A			0,2A
Maximum permanent current	0,1A			0,2A
Maximum permanent power	6VA			4W
Voltage range A.C.	3 ÷ 30V			/
Voltage range D.C.	3 ÷ 30V			12 ÷ 30V
Working temperature	-20° C + 70° C			
Maximum voltage drop	3V			
Cable section	2x0,14			3x0,14
Degree of protection	IP 65			
Connecting time	0,5 ms			0,8 µs
Disconnecting time	0,1 ms			0,3 µs
Average life (operations)	10 ⁷			10 ⁹
Repetition of intervention point	± 0,1			

Diagrams and connection



With Reed bulb



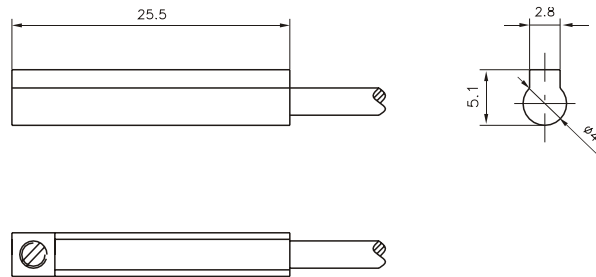
Hall effect

NOTE: Pay attention to the connected loads which should not exceed recommendations

***Reed bulb sensor: connection can be done either to negative or positive pole**



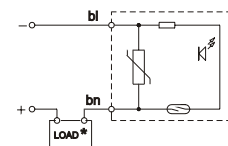
Sensor c/w 1 m. Cable



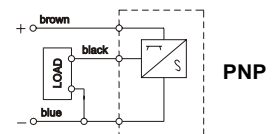
Ordering codes

1581.U	Reed bulb sensor with led and 1 m cable
1581.HAP	PNP sensor Hall effect with led and 1 m cable
1581.HAN	NPN sensor Hall effect with led and 1 m cable

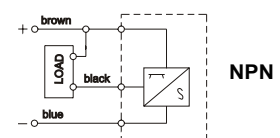
Diagrams and connection



With Reed bulb



PNP



NPN

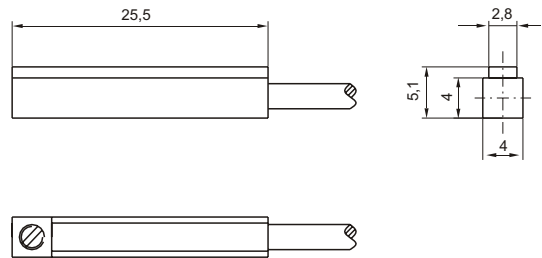
Hall effect

Technical characteristics

	1581.U	1581.HAP	1581.HAN
Type of contact	N.O.		
Maximum current	100mA	200mA	
Maximum permanent current	10W	6W	
Voltage range	5÷120VDC/AC	5 + 30V DC	
Working temperature	-10° C + 70°C		
Maximum voltage drop	/	0,5V	
Cable section	2, ø2,8	3,ø2,8	
Degree of protection	IP 67		



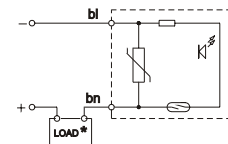
Sensor c/w 1 m. Cable



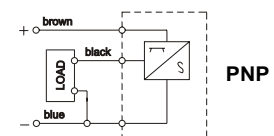
Ordering codes

1582.U	Reed bulb sensor with led and 1 m cable
1582.HAP	PNP sensor Hall effect with led and 1 m cable
1582.HAN	NPN sensor Hall effect with led and 1 m cable

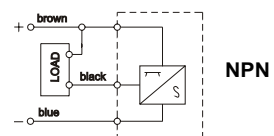
Diagrams and connection



With Reed bulb



PNP



NPN

Hall effect

Technical characteristics

	1582.U	1582.HAP	1582.HAN
Type of contact	N.O.		
Maximum current	100mA	200mA	
Maximum permanent current	10W	6W	
Voltage range	5+120VDC/AC	5+30V DC	
Working temperature	-10° C + 70° C		
Maximum voltage drop	/	0,5V	
Cable section	2, ø2,8	3, ø2,8	
Degree of protection	IP 67		